

New York State Department of Transportation

Yellow Flag NB2228W005

By: Ben Colangelo

Flag Date: March 18, 2022

Superseding Information:

This flag supersedes: YF NB2122W027

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Not Contacted

Date:

Of:

Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: March 22, 2022

Reviewed By: Robert Kemp

Date: March 24, 2022

Attachments: 7

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 190			
	107 - Steel Open Girder/Beam	989	ft

Flagged Condition Description

QC Note: This flag was re-inspected by Sahadeo Bhagwandin, P.E. No. 088239, but due to a software glitch, is being entered into BDIS (EAM) under Ben Colangelo, P.E.

This Yellow Flag NB2228W005 is superseding previous Yellow Flag NB2122W027.

Location: Span 190, Girder G1 at Pier 190.

Description: The left clip/connection angle of Girder G1 connection to the pier cap at Pier 190 exhibits a 5" long vertical crack x 1/2" wide at the upper fillet section (deterioration induced cracking, no change from the previous). At the right side of G1, the stiffener/connection angle has a 3" long vertical crack x 1/4" wide (deterioration induced cracking, previously noted to be 2.75" long x 1/4" wide) also at the upper fillet section.

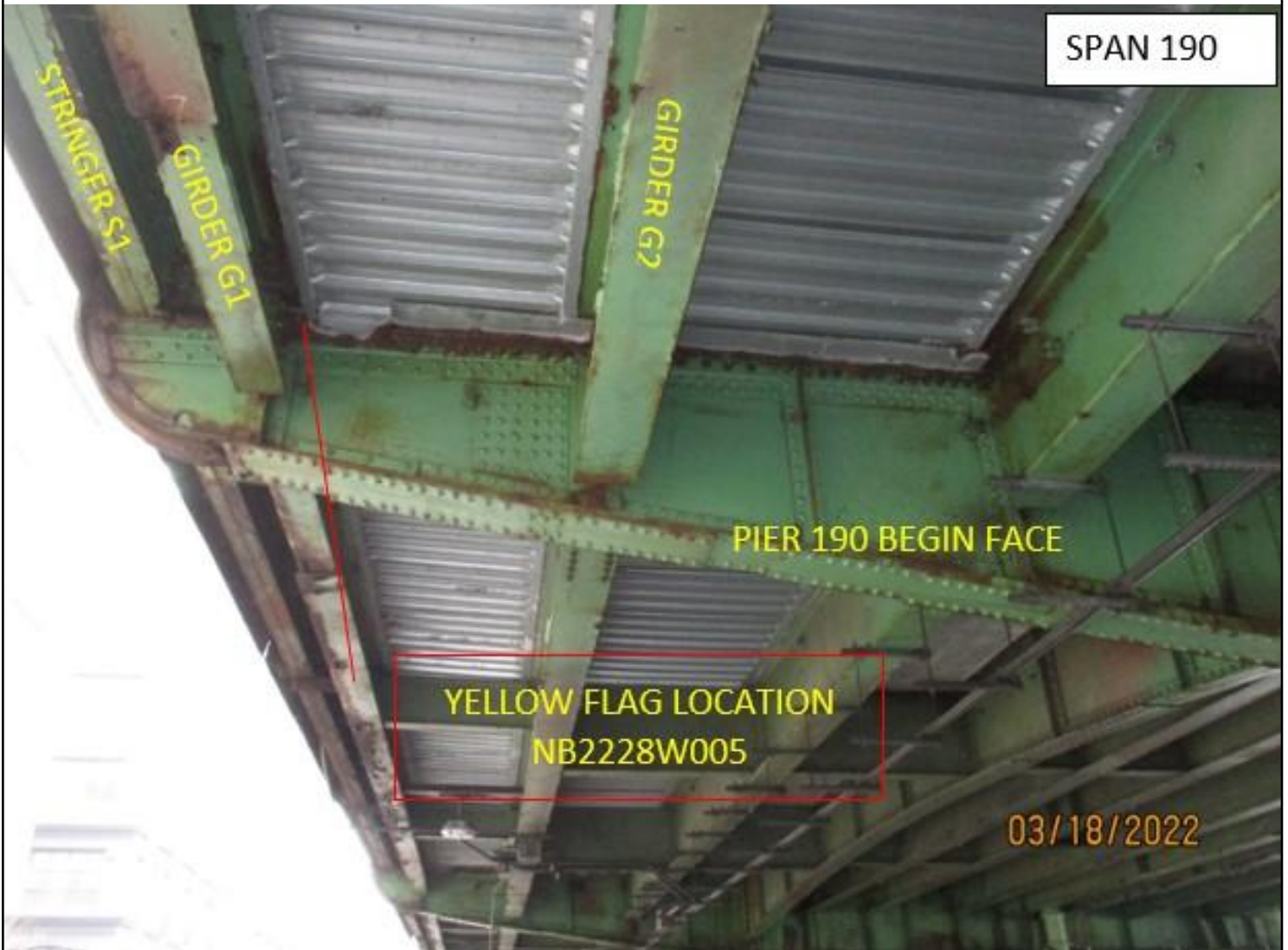
Notes

1. The affected member Girder G1 is a load path redundant steel girder consisting of a web depth of 19.27 inches and thickness of 0.608 inches and is located into the roadway approximately 12" off the edge of the curb line/safety walk above.
2. The base of the right-side stiffener/connection angle of G1 has two corrosion holes measuring 1" diameter and 2" L x 1-1/2" W.
3. The adjacent Girder (right) G2, with a spacing of 5'-3" on center from G1, has repair plates and is in fair condition.
4. The adjacent Stringer (left) S1, with a 2'-0" spacing on center from G1, acts as a support for the railing and curb area above and has a 4" x 2" corrosion hole at the right bottom flange angle and a 2' length of 40% section loss.
5. Double left lane closure on 3rd Avenue Westbound between 32nd and 34th Streets with shadow vehicle and a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

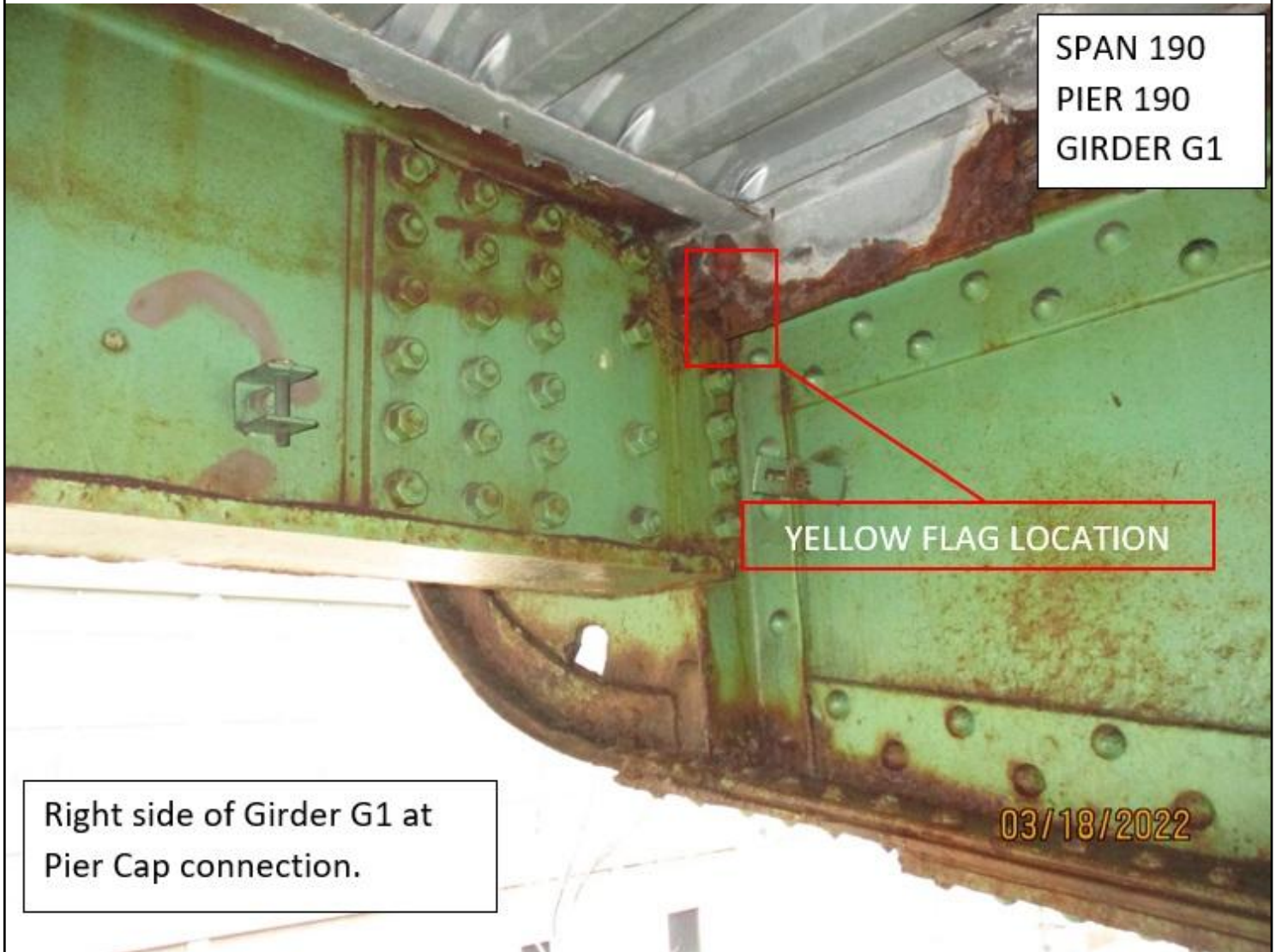
Photo Filename: Photo 4342.jpg



Attachment Description: Span 190, Girder G1 at Pier 190. General view of flagged location at pier cap. Looking end.

Photo Number: 2

Photo Filename: Photo 4338.jpg



Attachment Description: Span 190, Girder G1 at Pier 190. General view of 3" L x ¼" wide corrosion crack at upper fillet of stiffener connection angle at right side of girder connection to pier cap. Looking end left.

Photo Number: 3

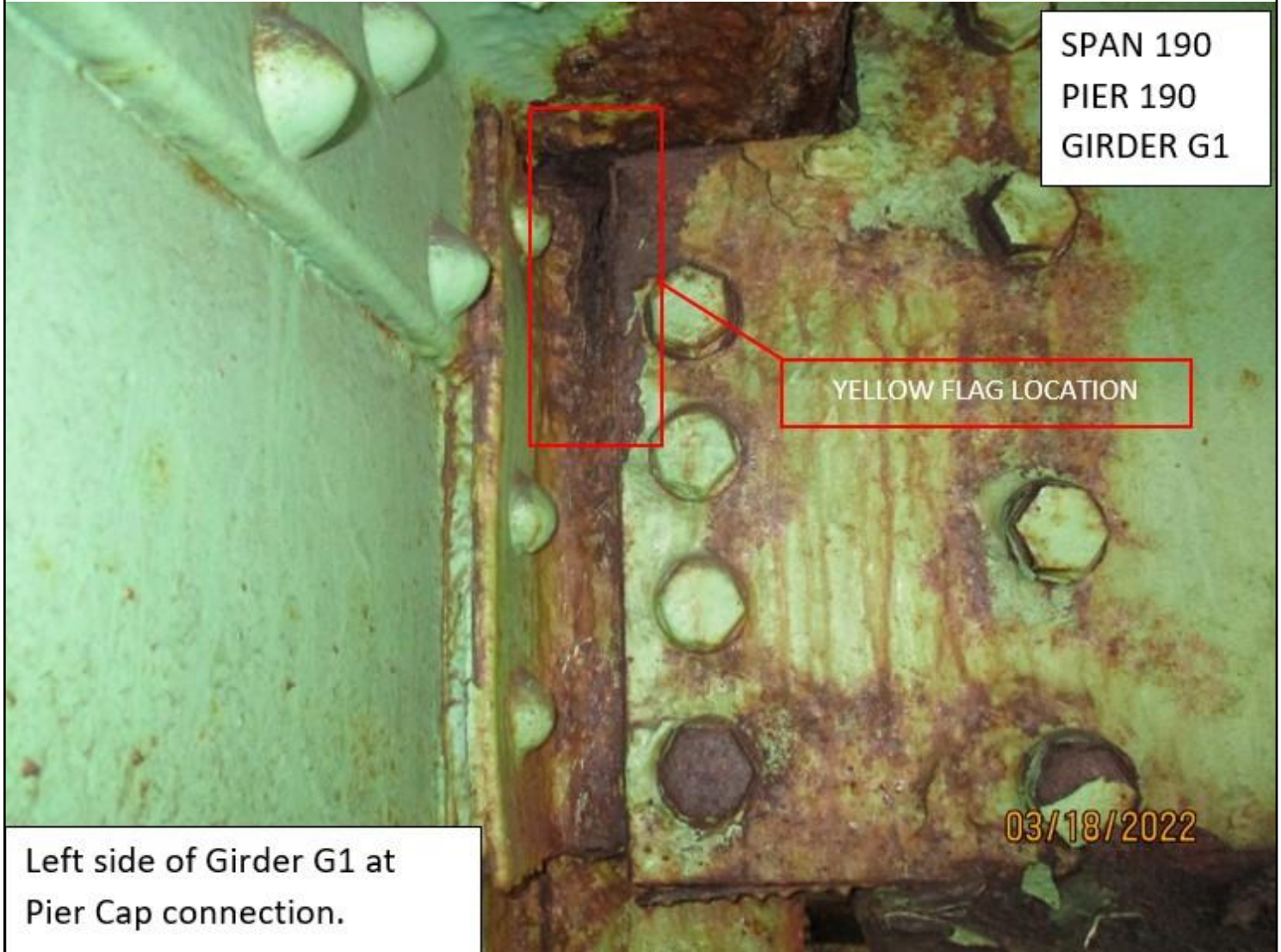
Photo Filename: Photo 4330.jpg



Attachment Description: Span 190, Girder G1 at Pier 190. Close up view of 3" L x 1/4" wide corrosion crack at upper fillet of stiffener connection angle at right side of girder connection to pier cap. Looking left.

Photo Number: 4

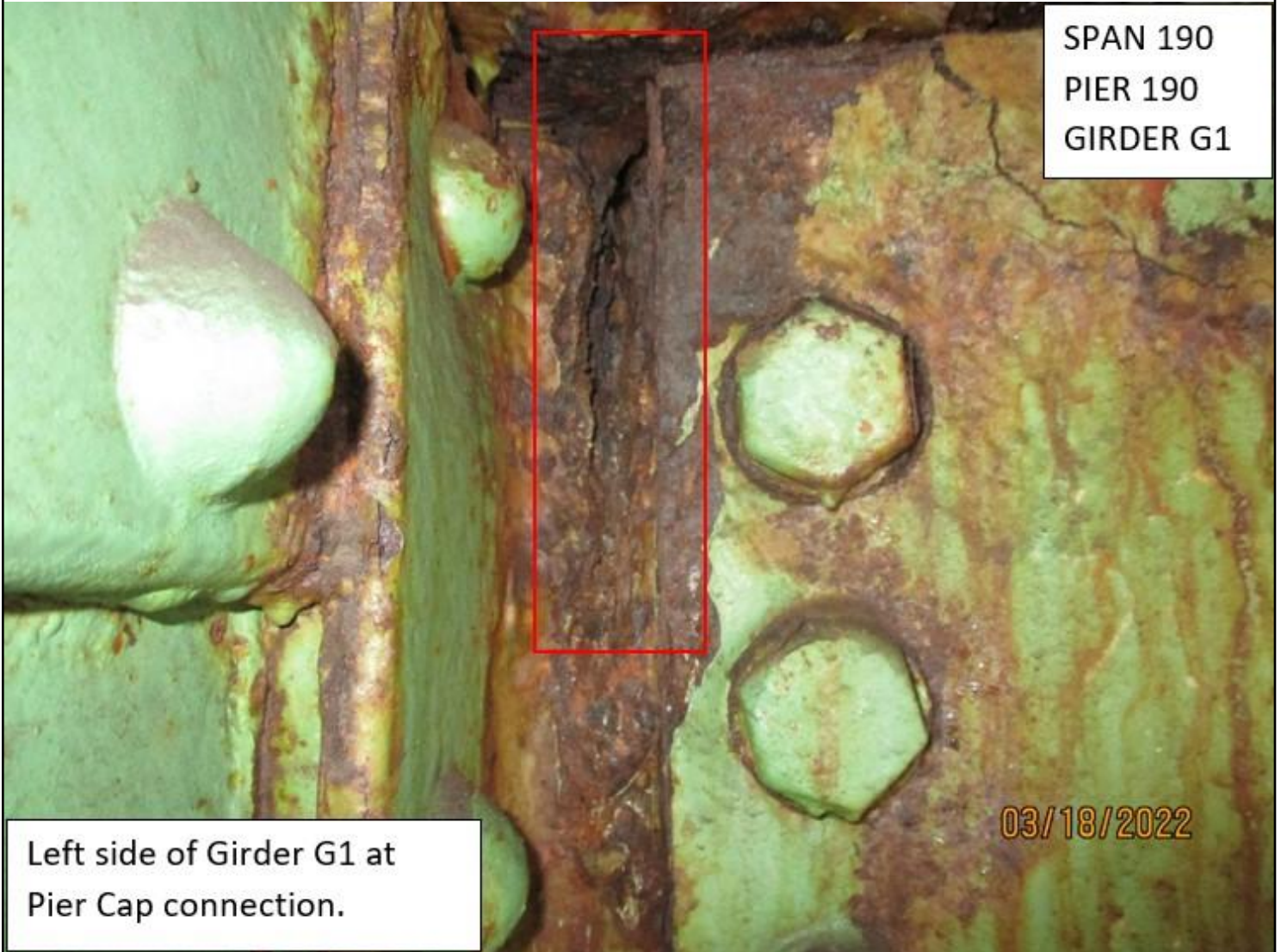
Photo Filename: Photo 4322.jpg



Attachment Description: Span 190, Girder G1 at Pier 190. General view of 5" long x ½" wide corrosion crack at upper fillet of clip connection angle at left side of girder at pier cap connection. Looking right.

Photo Number: 5

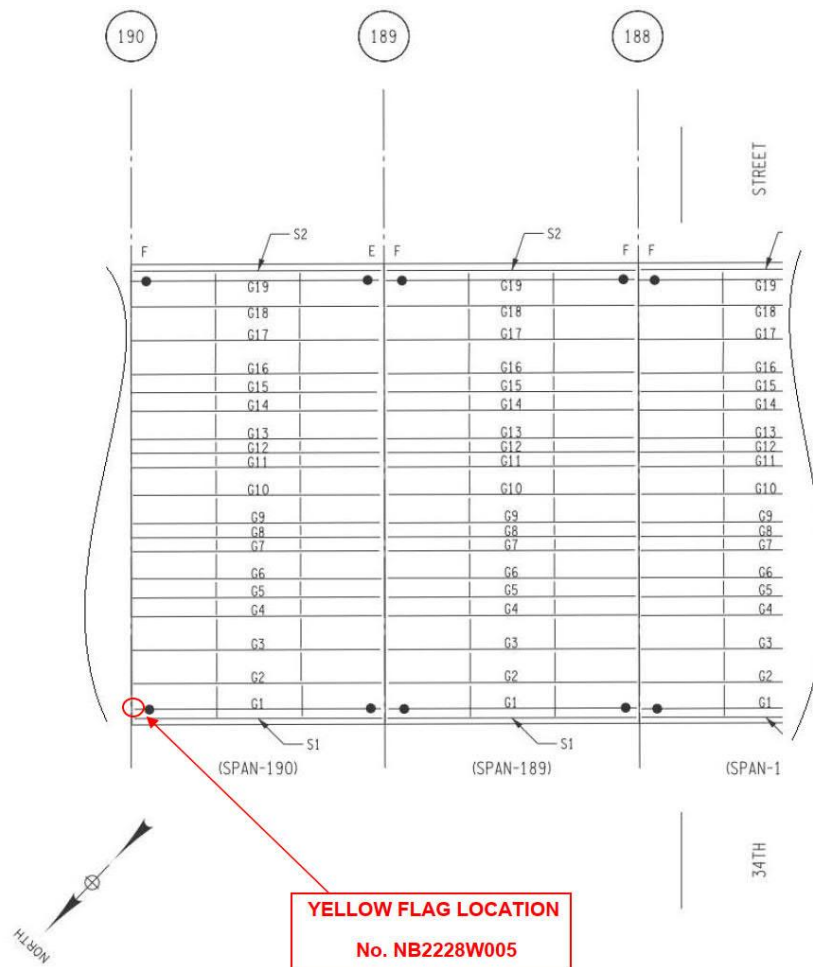
Photo Filename: Photo 4319.jpg



Attachment Description: Span 190, Girder G1 at Pier 190. Close up view of 5" long x ½" wide corrosion crack at upper fillet of clip connection angle at left side of girder at pier cap connection. Looking right.

Photo Number: 6

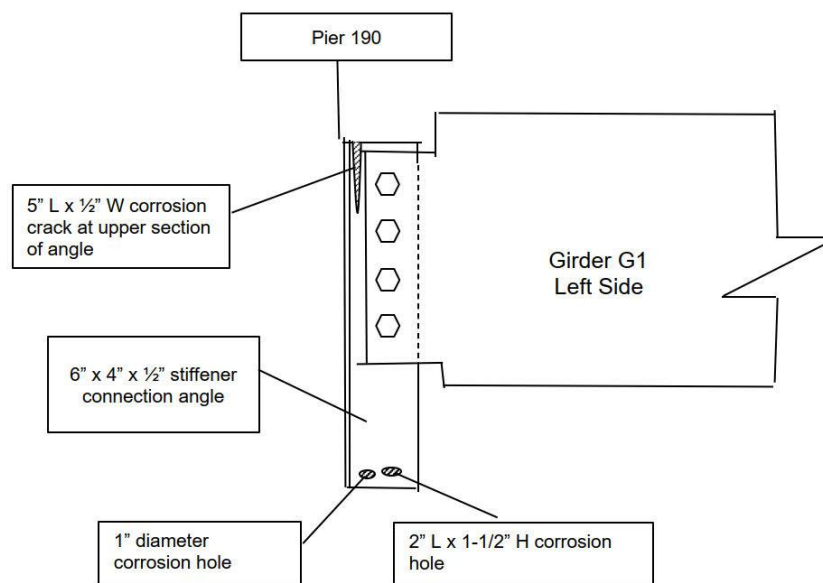
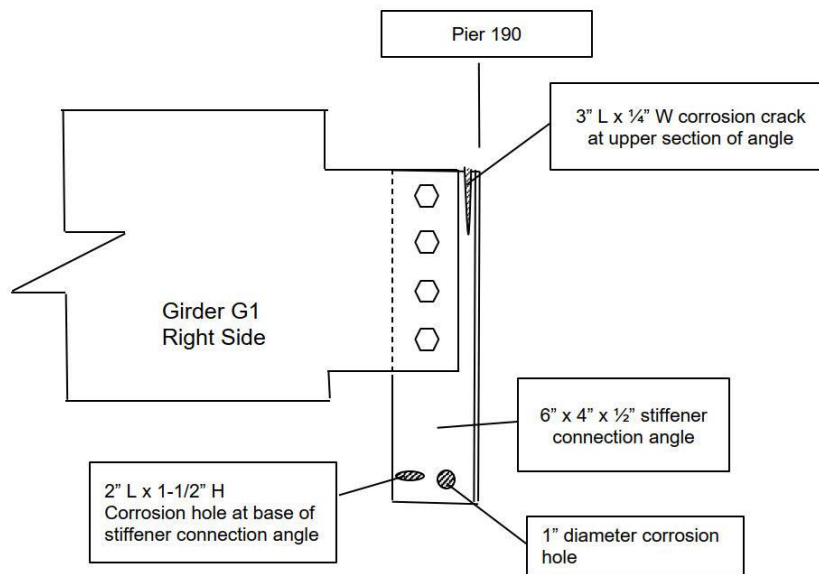
Photo Filename: Frame - Edit - revised.jpg



Attachment Description: BIN 1065318, Framing Plan - Spans 189 - 190

Photo Number: 7

Photo Filename: Girder Sketch.jpg

**SPAN 190, GIRDER G1 BEAM END AT PIER 190**

Attachment Description: YFNB2228W005, Sketch Form for Girder 1, Span 190